

#13 Reg for Refund

Practitioner's Docket No. MI30-052

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ammar Derraa

Application No.: 09/711,587 Group No.: 2822  
Filed: November 13, 2000 Examiner: Stephen D. Meier  
For: "Cathode Assemblies (as amended)"

Commissioner for Patents and Trademarks  
Washington, D.C. 20231

ATTENTION: Refund Section, Accounting Division, Office of Finance

REQUEST FOR REFUND  
(IMPROPER CHARGE OF DEPOSIT ACCOUNT)

## I. RETURN OF REFUND REQUEST

This is a request for a refund, with respect to the debit to Deposit Account 23-0925, shown on the statement dated November 24, 2003 for the above-identified application.

A copy of the monthly statement, in which the error referred to occurs, accompanies this request. A copy of the June 11, 2003 Office Action Response, page 2 and page 5; Preliminary Amendment filed on November 13, 2000; copy of the Filing Receipt, accompanies this request.

## CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

## MAILING

- ☐ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents and Trademarks, Washington, D.C. 20231.

## FACSIMILE

- ☒ transmitted by facsimile to the Patent and Trademark Office. 703-308-6778

Date: 22 January 2004

  
Signature

Rhonda G. Rambo

(type or print name of person certifying)

(Request for Debit (Improper Credit of Deposit Account)—page 1 of 2)

9 total pages

**II. FEES CHARGED FOR WHICH REFUND IS REQUESTED**

Improper charge for Claims in Excess of 20

**AMOUNT OF  
REFUND  
REQUESTED**

\$36.00

**TOTAL REFUND REQUESTED**

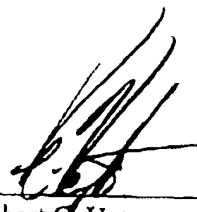
\$36.00

**III. EXPLANATION OF WHY CONTESTED CHARGE IS IN ERROR**

On November 13, 2000 we filed a divisional application, claims 1-52 were cancelled; total claims of 10 and one independent claim. On October 14, 2003 we filed an Office Action Response to the June 11, 2003 Office Communication; in this office action response, claims 1-62 were cancelled and new claims 63-84 were added. No new matter was added through the addition of claims 63-84. Therefore, no additional fees are believed to be required. Please credit Deposit Account No. 23-0925 with the above fee amount.

**IV. MANNER OF REFUND**

Please Credit Account No. 23-0925.

Date: 1/22/04  
Robert C. Hyta  
Reg. No. 46,791  
Wells St. John P.S.  
601 West First Ave., Suite 1300  
Spokane, WA 99201-3828  
Tel. No.: (509) 624-4276  
Customer No.: 021567

(Request for Debit (Improper Credit of Deposit Account)—page 2 of 2)

## Deposit Account Statement

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**United States  
Patent and  
Trademark Office**

Return To:


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Page**Deposit Account Statement**

**Requested Statement Month:** November 2003  
**Deposit Account Number:** 230925  
**Name:** WELLS ST JOHN PS  
**Attention:** RHONDA RAMBO  
**Address:** 601 WEST FIRST AVENUE SUITE 1300  
**City:** SPOKANE  
**State:** WA  
**Zip:** 99201-3817

DATE	SEQ	POSTING REF TXT	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL
11/04	56	09641826	MI22-1504	1806	\$180.00	\$14,388.00
11/04	57	09951153	MI22-1781	1806	\$180.00	\$14,208.00
11/05	9	6600905		1811	\$100.00	\$14,108.00
11/06	34	SUBSCRIPTION		8001	\$3.00	\$14,105.00
11/06	66	09641826	MI22-1504	1806	-\$180.00	\$14,285.00
11/06	67	09951153	MI22-1781	1806	-\$180.00	\$14,465.00
11/06	104	10009893		9204	-\$3.00	\$14,468.00
11/07	24	09810387	M122-1559	1806	\$180.00	\$14,288.00
11/07	118	10701696	MI22-2424	1202	\$72.00	\$14,216.00
11/10	1	10226894	MI22-2071	1806	\$180.00	\$14,036.00
11/10	42	10244122	MI22-2111	1814	\$110.00	\$13,926.00
11/10	43	10244122	MI22-2111	1202	\$162.00	\$13,764.00
11/10	44	10244122	MI22-2111	1201	\$258.00	\$13,506.00
11/13	32	SUBSCRIPTION		8001	\$3.00	\$13,503.00
11/13	43	10607285	EA12-001	2051	\$65.00	\$13,438.00
11/13	69	10703921	IS9-024	2201	\$46.00	\$13,392.00
11/14	29	10033599	AV1-062	1201	-\$420.00	\$13,812.00
11/14	44	10071843		9204	-\$20.00	\$13,832.00
11/14	60	76384731	IT2-129	7003	\$100.00	\$13,732.00
11/14	101	10705522	IR3-065	2001	\$385.00	\$13,347.00
11/14	1191	78328106	PO4-1227	7001	\$335.00	\$13,012.00
11/17	236	78328258	PO4-1228	7001	\$335.00	\$12,677.00
11/17	342	78328330	PO4-1229	7001	\$335.00	\$12,342.00
11/17	354	78328339	PO4-1230	7001	\$335.00	\$12,007.00
11/17	401	76121414	PO4-1141	7004	\$150.00	\$11,857.00
11/18	989	78329408	PO4-1222	7001	\$335.00	\$11,522.00
11/18	1064	78329440	PO4-1226	7001	\$335.00	\$11,187.00
11/19	118	10713647		9204	-\$580.00	\$11,747.00
11/20	943	76192835	ST79-101	7004	\$150.00	\$11,597.00
11/21	107	09524804	MI40-285	1201	\$774.00	\$10,823.00
11/21	324	5295793	CL15003	8014	\$25.00	\$10,798.00

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11/21	1159	1793997	TI5-102	7205	\$100.00	\$10,698.00
11/21	1160	1793997	TI5-102	7201	\$400.00	\$10,298.00
11/21	1161	1793997	TI5-102	7206	\$100.00	\$10,198.00
11/21	1162	1793997	TI5-102	7203	\$100.00	\$10,098.00
11/24	3	09711587	M130-052	1202	\$36.00	\$10,062.00
11/25	6	09834660	MI22-1637	1453	-\$1,300.00	\$11,362.00
11/25	1050	76408923	RI27-101	7003	\$100.00	\$11,262.00
11/26	7	P-108265	<del>1058-108</del>	1460	\$130.00	\$11,132.00
11/28	1	10339695	MI22-2224	1202	\$630.00	\$10,502.00
11/28	33	SUBSCRIPTION		8001	\$3.00	\$10,499.00

START	SUM OF	SUM OF	END
BALANCE	CHARGES	REPLENISH	BALANCE
\$14,568.00	\$6,732.00	\$2,663.00	\$10,499.00

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EL 465852811

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

priority Application Serial No. .... 09/251,262  
priority Filing Date ..... February 16, 1999  
 Inventor ..... Ammar Derraa  
 Assignee ..... Micron Technology, Inc.  
priority Group Art Unit ..... 2815  
priority Examiner ..... D. Hardy  
 Attorney's Docket No. .... MI30-052  
 Title: Cathode Assemblies

## PRELIMINARY AMENDMENT

To: Box Patent Application  
 Assistant Commissioner for Patents  
 Washington, D.C. 20231

From: David G. Latwesen, Ph.D. (Tel. 509-624-4276; Fax 509-838-3424)  
 Wells, St. John, Roberts, Gregory & Matkin P.S.  
 601 W. First Avenue, Suite 1300  
 Spokane, WA 99201-3828

# COPY

## AMENDMENTS

### In the Specification

Replace the title with --Cathode Assemblies--.

At p. 1, before the "Technical Field" section, insert

### --RELATED PATENT DATA

This patent resulted from a divisional application of U.S. Patent  
 Application Serial No. 09/251,262, which was filed on February 16,  
 1999.--.

Amended Claims

Cancel claims 1-52.

REMARKS

Claims 1-52 are canceled, leaving claims 53-62 pending in the application. Applicant requests substantive examination of the pending claims.

Respectfully submitted,

Dated: 1/13/00By: 

David G. Latwesen, Ph.D.  
Reg. No. 38,533

**COPY**



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20230  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FILE FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/711,587	11/13/2000	2812	710	MI30-052	3	10	1

021567  
WELLS ST JOHN ROBERTS GREGORY AND MATKIN  
SUITE 1300  
601 W FIRST AVENUE  
SPOKANE, WA 992013828

## FILING RECEIPT

\*OC000000005789899\*

Date Mailed: 02/22/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Ammar Derraa, Boise, ID ;

## Continuing Data as Claimed by Applicant

THIS APPLICATION IS A DIV OF 09/251,262 02/16/1999

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## Foreign Applications

If Required, Foreign Filing License Granted 02/20/2001

## Title

Cathode assemblies

## Preliminary Class

438

Data entry by : LADRINGAN, JUDITH

Team : OIPE

Date: 02/22/2001



Appl. No. 09/711,587

Amendments to the Claims

Claim 1-62 (Cancelled).

Claim 63 (New): A cathode assembly comprising:

a plurality of silicon-comprising emitter tips, at least one of the emitter tips being substantially conical and comprising a tip portion supported by a frustrum portion, the tip and frustrum portions including sidewalls; and

a coating over the tip portion, the coating not being along the frustrum portion sidewalls, wherein the coating comprises a first material having a lower work function than silicon.

Claim 64 (New): The assembly of claim 63 wherein the tip portion terminates in a pointed apex.

Claim 65 (New): The assembly of claim 63 wherein the at least one of the emitter tips comprises conductively doped polysilicon.

Claim 66 (New): The assembly of claim 65 wherein the frustrum portion comprises conductively doped polysilicon.

Claim 67 (New): The assembly of claim 65 wherein the tip portion comprises conductively doped polysilicon.

Claim 68 (New): The assembly of claim 63 wherein the at least one of the emitter tips consists essentially of conductively doped polysilicon.

**COPY**



Appl. No. 09/711,587

REMARKS

Claims 53-62 have been cancelled and new claims 63-84 have been added. Claims 63-84 are pending in the application.

No new matter has been added through the addition of claims 63-84. Claims 63-84 are supported, for example, at Figs. 3-6 and pages 7-10 of the Specification.

Claims 63-84 are also believed to be allowable over the cited references. For example, claim 63 is believed allowable for at least the reason that it recites a plurality of silicon-comprising emitter tips, at least one of the emitter tips being substantially conical and comprising a tip portion supported by a frustrum portion with the tip and frustrum portions including sidewalls. Claim 63 further recites a coating over the tip portion without the coating being over the frustrum portion sidewalls, the coating including a first material having a lower work function than silicon. The cited references do not teach or suggest these features. With particular reference to Fig. 107 of Jones, to the extent a coating is taught, the coating extends over the frustrum portion of the emitter tip. Neither Takemura nor the remaining cited references teach the coating of an emitter tip with a material having a lower work function than silicon. Because the cited references neither teach nor suggest the features of claim 63, claim 63 is allowable. Claims 64-77 depend from claim 63 and are allowable for at least the reasons stated above regarding claim 63.

As another example, claim 77 is believed allowable for at least the reason that it recites a cathode assembly that includes material over a substrate and between at least two substantially conical emitter tips with the material having an upper surface contacting the frustrum portion sidewall without contacting the tip portion sidewall of the emitter tips. Claim 77 further recites that an entirety of the upper surface of the material is exposed.

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